Monday 1ˢᵗ June 2020

LO: Adding two or more fractions

To start this week, we would like you to practise adding 2 or more fractions. Remember, we only add the numerator (the top number) and the denominator (the bottom number) stays the same.
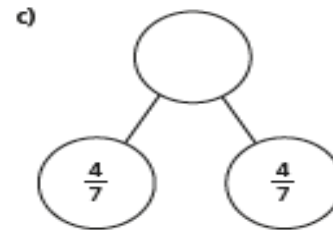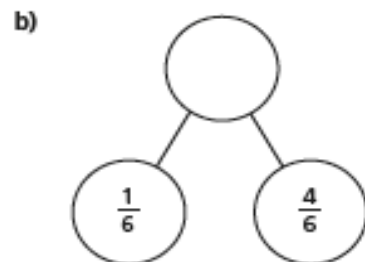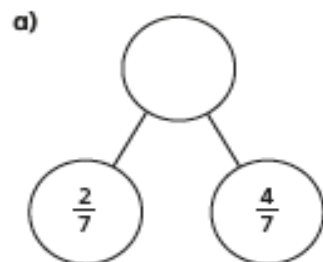
1 Complete the additions.

a) $\frac{1}{5} + \frac{2}{5} = \boxed{}$

b) $\frac{1}{5} + \frac{3}{5} = \boxed{}$

c) $\frac{3}{8} + \frac{3}{8} = \boxed{}$

d) $\frac{3}{8} + \frac{1}{8} = \boxed{}$

2 Complete the part-whole models.

a) $\frac{2}{7}$ $\frac{4}{7}$

b) $\frac{1}{6}$ $\frac{4}{6}$

c) $\frac{4}{7}$ $\frac{4}{7}$

d) Which part-whole model is the odd one out?

Explain your choice to a partner.

Did you both have the same answer?

3 Complete the additions.

a) $\frac{3}{7} + \frac{3}{7} = \boxed{}$

b) $\frac{3}{7} + \frac{4}{7} = \boxed{} = \boxed{}$

c) $\frac{4}{5} + \frac{3}{5} = \boxed{} = \boxed{}$

d) $\frac{8}{5} + \frac{6}{5} = \boxed{} = \boxed{}$

e) $\frac{8}{11} + \frac{6}{11} = \boxed{} = \boxed{}$

f) $\frac{4}{11} + \frac{4}{11} + \frac{6}{11} = \boxed{} = \boxed{}$

g) $\frac{3}{11} + \frac{3}{11} + \frac{8}{11} = \boxed{} = \boxed{}$

h) $\frac{3}{7} + \frac{3}{7} + \frac{8}{7} = \boxed{} = \boxed{}$

4

$$\frac{\square}{4} + \frac{\square}{4} = \frac{9}{4}$$

What could the missing numerators be?

Give four different possibilities.

$$\frac{\square}{4} + \frac{\square}{4} = \frac{9}{4} \qquad \frac{\square}{4} + \frac{\square}{4} = \frac{9}{4}$$

$$\frac{\square}{4} + \frac{\square}{4} = \frac{9}{4} \qquad \frac{\square}{4} + \frac{\square}{4} = \frac{9}{4}$$

5 Tommy is adding fractions.

$$\frac{3}{4} + \frac{3}{4} = \frac{6}{8}$$

Explain why Tommy is incorrect.

_____

_____

_____

6 Complete the number sentences.

a) $\frac{3}{8} + \frac{\square}{8} = \frac{7}{8}$

b) $\frac{3}{8} + \frac{\square}{8} = 1$

c) $\frac{3}{16} + \frac{\square}{\square} = 1$

d) $\frac{4}{9} + \frac{\square}{9} = \frac{11}{9} = 1\frac{\square}{9}$

e) $\frac{4}{9} + \frac{\square}{9} = \frac{13}{9} = 1\frac{\square}{9}$

f) $\frac{4}{9} + \frac{\square}{9} = \frac{\square}{9} = 1\frac{7}{9}$

g) $\frac{5}{7} + \frac{\square}{7} + \frac{5}{7} = 2$

h) $\frac{5}{7} + \frac{\square}{7} + \frac{5}{7} = 3$

7 Rosie, Whitney and Teddy have each been for a walk.

Rosie walked $\frac{5}{8}$ km.

Whitney walked $\frac{7}{8}$ km.

Teddy walked $\frac{3}{8}$ km.

a) How far did they walk altogether? $\square$ km

b) Jack also went for a walk.

Altogether the four children walked 3 km.

How far did Jack walk? $\square$ km

1 Complete the subtractions.

a)

$$\frac{4}{5} - \frac{1}{5} = \boxed{}$$

b)

$$\frac{4}{5} - \frac{2}{5} = \boxed{}$$

c)

$$\frac{5}{7} - \frac{3}{7} = \boxed{}$$

d)

$$\frac{7}{9} - \frac{4}{9} = \boxed{}$$

2 Complete the calculations.

a) $\frac{7}{10} - \frac{3}{10} = \boxed{}$

b) $\frac{2}{3} - \frac{1}{3} = \boxed{}$

c) $\frac{6}{6} - \frac{6}{6} = \boxed{}$

d) $\frac{3}{4} - \frac{1}{4} = \boxed{}$

e) $\frac{9}{11} - \frac{3}{11} = \boxed{}$

f) $\frac{6}{7} - \frac{4}{7} = \boxed{}$

g) $\frac{8}{93} - \frac{2}{93} = \boxed{}$

h) $\frac{10}{991} - \frac{3}{991} = \boxed{}$

3 Complete the subtractions

a) $\frac{9}{5} - \frac{6}{5} = \boxed{}$

b) $\frac{9}{5} - \frac{5}{5} = \boxed{}$

c) $\frac{9}{5} - \frac{4}{5} = \boxed{} = \boxed{}$

d) $\frac{9}{2} - \frac{4}{2} = \boxed{} = \boxed{}$

e) $\frac{8}{3} - \frac{4}{3} = \boxed{} = \boxed{}$

f) $\frac{11}{3} - \frac{4}{3} = \boxed{} = \boxed{}$

g) $\frac{14}{3} - \frac{4}{3} = \boxed{} = \boxed{}$

h) $\frac{15}{3} - \frac{5}{3} = \boxed{} = \boxed{}$
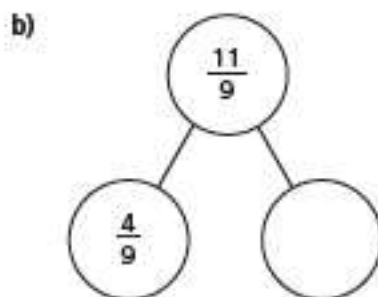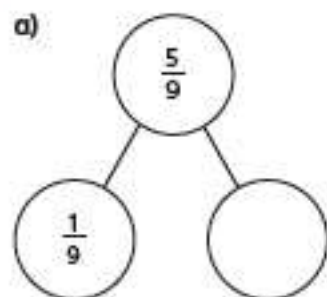
4 Jack has $2\frac{1}{4}$ kg of potatoes.

He uses $\frac{5}{4}$ kg of potatoes.

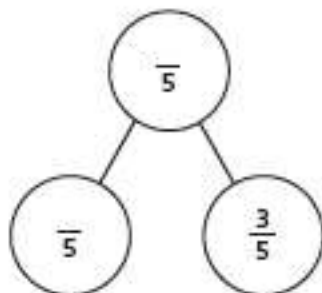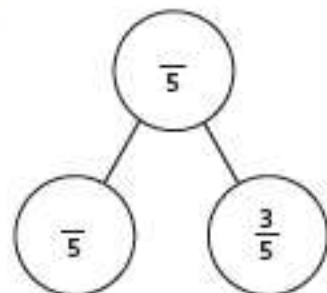How many kilograms does he have left?

$2\frac{1}{4}$ kg

Jack has $\boxed{}$ kg left.

5 Complete the part-whole models.

a)

$\frac{5}{9}$

$\frac{1}{9}$

b)

$\frac{11}{9}$

$\frac{4}{9}$

6 Complete the part-whole model in two different ways.

$\frac{}{5}$

$\frac{}{5}$ $\frac{3}{5}$

$\frac{}{5}$

$\frac{}{5}$ $\frac{3}{5}$

7 Fill in the missing numerators.

a) $\frac{10}{11} - \frac{\boxed{}}{11} = \frac{7}{11}$

b) $\frac{10}{11} - \frac{\boxed{}}{11} = \frac{7}{11} - \frac{4}{11}$

c) $\frac{10}{11} - \frac{4}{11} = \frac{\boxed{}}{11} - \frac{7}{11}$

d) $\frac{15}{4} - \frac{\boxed{}}{4} = 2$

e) $\frac{9}{4} - \frac{1}{4} = \frac{\boxed{}}{4} + 1$

f) $\frac{11}{4} - \frac{3}{4} = \frac{11}{3} - \frac{\boxed{}}{3}$

8 Alex and Annie are taking turns playing a computer game.

Annie plays for a total of $2\frac{1}{4}$ hours.

Annie plays for $\frac{3}{4}$ of an hour more than Alex.

How much time do they spend in total playing on the game?

$\boxed{}$ hours
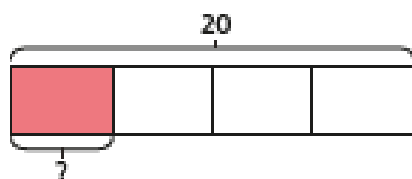
1 Complete the number sentences.

a) $\frac{1}{4}$ of 20 = ☐

20

?

d) $\frac{1}{4}$ of 40 = ☐

40

?

b) $\frac{1}{5}$ of 20 = ☐

20

?

e) $\frac{1}{8}$ of 40 = ☐

40

?

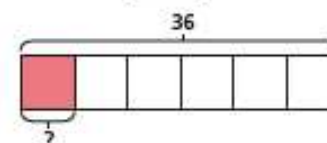c) $\frac{1}{10}$ of 20 = ☐

20

?

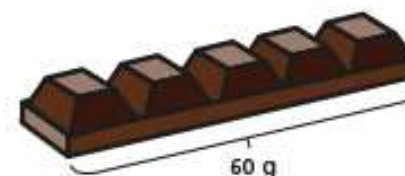f) $\frac{1}{8}$ of 80 = ☐

80

?

g) $\frac{1}{3}$ of 36 = ☐

36

?
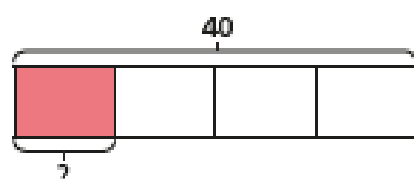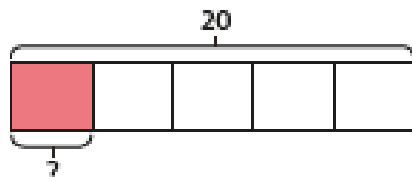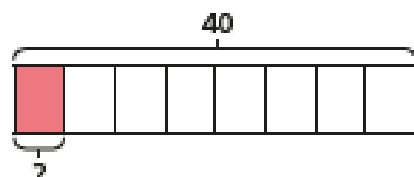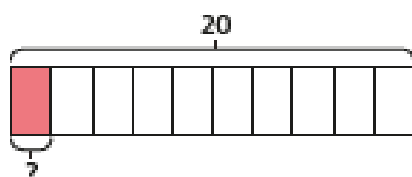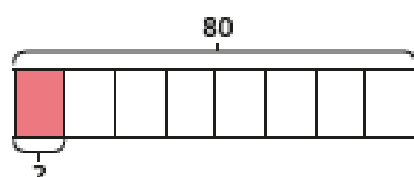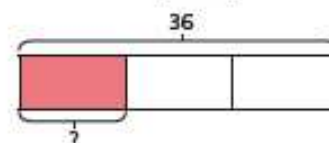
h) $\frac{1}{6}$ of 36 = ☐

36

?

2 Filip has a chocolate bar with 5 equal pieces.

The chocolate bar weighs 60 g.

60 g

a) What is the mass of one piece?

The mass of one piece is ☐ g.

b) Filip eats $\frac{3}{5}$ of the bar of chocolate.

How many grams does Filip eat?

Filip eats ☐ g of chocolate.

3 Complete the number sentences.

a) $\frac{1}{4}$ of 24 = ☐

$\frac{3}{4}$ of 24 = ☐

c) $\frac{1}{8}$ of 32 = ☐

$\frac{5}{8}$ of 32 = ☐

b) $\frac{1}{7}$ of 35 = ☐

$\frac{3}{7}$ of 35 = ☐

$\frac{5}{7}$ of 35 = ☐

d) $\frac{5}{8}$ of 64 = ☐

$\frac{7}{8}$ of 64 = ☐

$\frac{10}{8}$ of 64 = ☐

5 a) Write each calculation in the correct circle.

$\frac{1}{2}$ of 16 $\frac{1}{4}$ of 24 $\frac{2}{3}$ of 9 $\frac{3}{2}$ of 4 $\frac{1}{6}$ of 48

= 6

= 8

b) Write one more calculation in each circle.

4 Match the calculations to the answers.

$\frac{2}{3}$ of 18		18
$\frac{5}{6}$ of 18		15
$\frac{9}{10}$ of 20		16
$\frac{4}{5}$ of 20		12

6 Write <, > or = to compare the calculations.

a) $\frac{2}{7}$ of 21 ◯ $\frac{2}{3}$ of 21

b) $\frac{3}{5}$ of 40 ◯ $\frac{2}{3}$ of 36

c) $\frac{6}{8}$ of 40 ◯ $\frac{3}{4}$ of 40

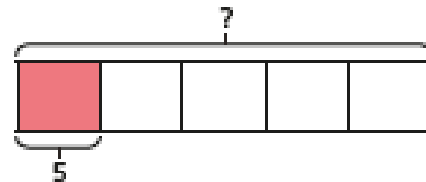d) $\frac{6}{10}$ of 50 ◯ $\frac{3}{10}$ of 100

1 Match the calculations to the bar models.

Work out the missing quantities.

$\frac{1}{4}$ of ☐ = 5

$\frac{1}{4}$ of ☐ = 4
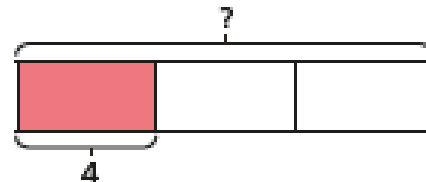
$\frac{1}{5}$ of ☐ = 5
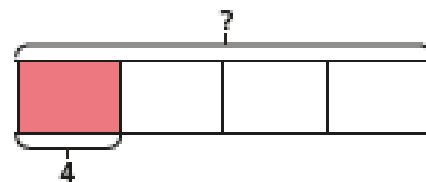
$\frac{1}{3}$ of ☐ = 4
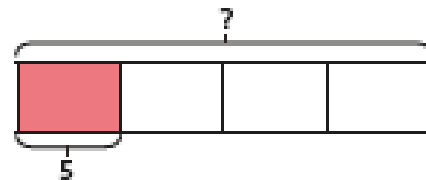
2 Complete the sentences.

a) When one fifth is 1, the whole is ☐
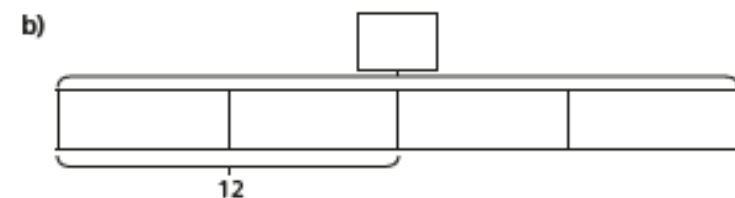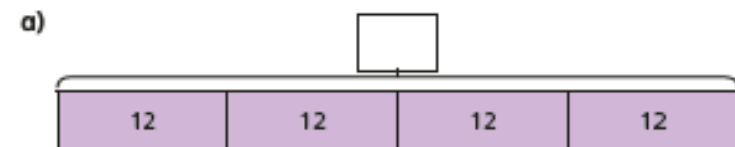
When one fifth is 10, the whole is ☐

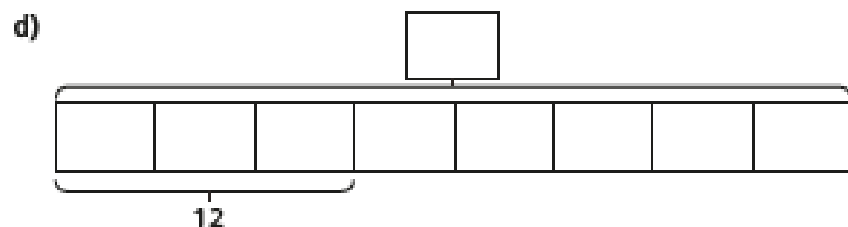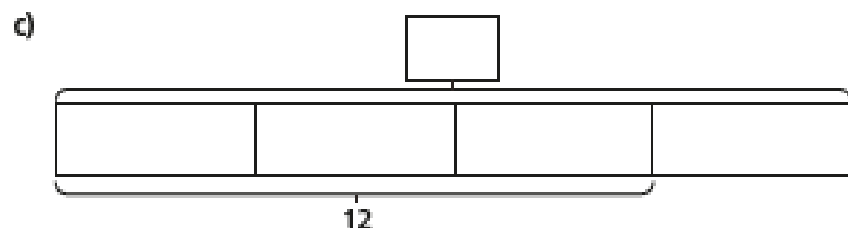When one fifth is 20, the whole is ☐

b) When $\frac{1}{7}$ is 2, the whole is ☐

When $\frac{1}{7}$ is 4, the whole is ☐

When $\frac{1}{7}$ is 8, the whole is ☐

3 Complete the bar models and fill in the whole.

a)

| 12 | 12 | 12 | 12 |

b)

12

c)

12

d)

12

Complete the calculations.

a) $\frac{1}{2}$ of ☐ = 30

e) $\frac{3}{7}$ of ☐ = 15

b) $\frac{1}{2}$ of ☐ = 15

f) $\frac{5}{7}$ of ☐ = 15

c) $\frac{1}{4}$ of ☐ = 15

g) $\frac{5}{7}$ of ☐ = 35

d) $\frac{3}{4}$ of ☐ = 15

h) $\frac{7}{5}$ of ☐ = 35

5 Dora and Mo have a full bottle of juice.

Dora drinks $\frac{2}{5}$ of the juice.

Mo drinks $\frac{1}{5}$ of the juice.

There is 150 ml of juice left in the bottle.

How much juice was in the full bottle?

☐ ml

6 Rosie and Ron are collecting red and blue counters.

They have the same number of blue counters.

They have a different number of red counters.

I have 18 counters altogether. $\frac{2}{3}$ are blue.

Rosie

$\frac{3}{4}$ of my counters are blue.

Ron

a) How many counters does Ron have altogether?

☐

b) How many red counters do they each have?

Rosie has ☐ red counters.

Ron has ☐ red counters.

Friday 5th June 2020

LO: Arithmetic: Today we'd like you to practise some mental arithmetic. You may use the space underneath the questions for your workings out!

1 572 + 100 =

1 mark

2 317 - 200 =

1 mark

3 39 x 6 =

1 mark

4 $\frac{3}{8} + \frac{1}{8} =$

1 mark

5 4920 - 1000 =

1 mark

6 2776 + 4619 =

1 mark

7 12 x 7 =

1 mark

8 826 x 3 =

1 mark

9 $\frac{5}{6} - \frac{1}{6} =$

1 mark

10 3.76 + 0.08 =

1 mark

11 29 ÷ 10 =

1 mark

12 4.7 + 2.87 =

1 mark